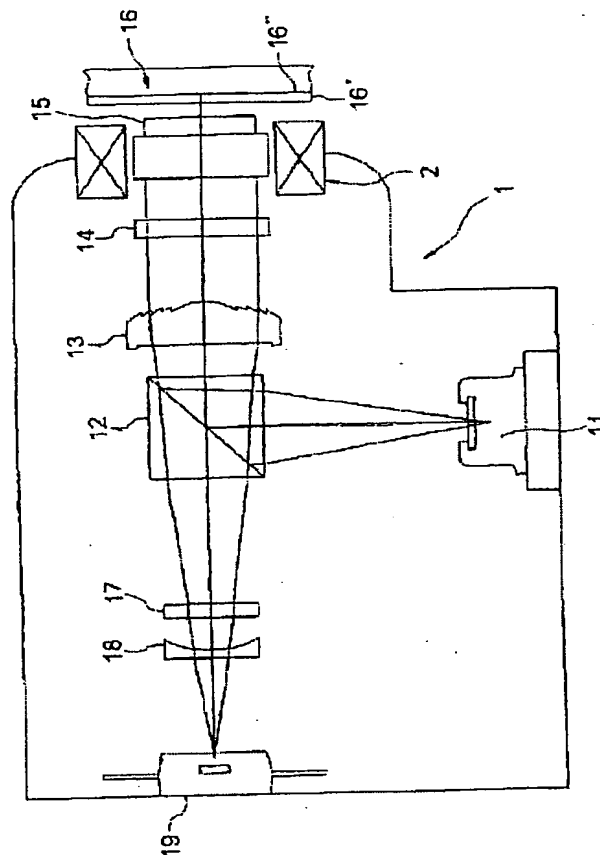


# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 2001108894  
PUBLICATION DATE : 20-04-01  
  
APPLICATION DATE : 08-10-99  
APPLICATION NUMBER : 11287765  
  
APPLICANT : KONICA CORP;  
  
INVENTOR : KOJIMA TOSHIYUKI;  
  
INT.CL. : G02B 13/00 G02B 13/18 G11B 7/125  
G11B 7/135  
  
TITLE : OPTICAL SYSTEM FOR OPTICAL  
PICKUP, OPTICAL PICKUP DEVICE,  
COUPLING OPTICAL SYSTEM, LENS  
FOR COUPLING OPTICAL SYSTEM,  
AND RECORDING AND  
REPRODUCING DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To provide an optical system for optical pickup which can correct an on-axis chromatic aberration with a relatively simple constitution and can be manufactured at a low cost even when a light source with inferior monochromaticity or a light source which abruptly varies in wavelength is used.

SOLUTION: The optical system for optical pickup is provided with a coupling optical system and an objective lens optical system and a diffracting surface is formed on a diffraction integrated type collimator 13 as the coupling optical system. The diffracting surface of the diffraction integrated type collimator 13 generates an on-axis chromatic aberration which is equal in size to and opposite in sign from that of an objective lens 15, so the luminous flux emitted by a semiconductor laser 11 is converged on an information recording surface 16" of an optical disk 16 nearly without on-axis chromatic aberration.

COPYRIGHT: (C)2001,JPO